


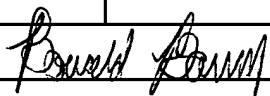


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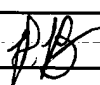
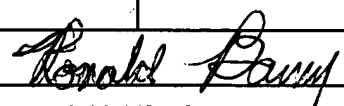


Atty. Docket No. 04329.2163	Serial No. Not Yet Assigned						
Applicants Fumihiko SANO et al.							
Filing Date September 1, 1999	Group						
U.S. PATENT DOCUMENTS							
Examiner Initial <i>RB</i>		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
		3,962,539	06/08/76	EHR SAM et al.			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub Class	Translation Yes or No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>RB</i>	American National Standard, "X9.52 - 1998, Triple Data Encryption Algorithm Modes Of Operation," American Bankers Association, Pages 1-89, (1998).						
Examiner <i>Ronald Bunn</i>	Date Considered <i>2/24/03</i>						
*Examiner:	Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						
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Atty. Docket No. 04329.2163			Serial No. 09/388,388			
Applicant Fumihiko SANO et al.						
Filing Date September 1, 1999			Group 2766			
FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Sub Class	Translation Yes or No
	JP 10 116029 A (Abstract)	5/6/98	Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	E. Biham et al.: "How to strengthen DES using existing hardware"; Advances in Cryptology - ASIACRYPT'94. 4 th International Conference on the theory and applications of cryptology. Proceedings, Advances in Cryptology - ASIACRYPT'94. 4 th International Conference on the theory and applications of cryptology, Wollongong, pp.398-412, XP000527605 1995, Berlin, Germany, Springer-Verlag.					
	M.H. Dawson et al.: "An expanded set of design criteria for substitution boxes and their use in strengthening DES-like cryptosystems"; IEEE Pacific Rim Conference on Communications, Computers and Signal Processing (Cat. No. 91CH2954-6), Victoria, BC, Canada, 9-10 May 1991, pp. 191-195 vol.1 XP000280289 1991.					
Examiner 			Date Considered 7/24/03			
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Atty. Docket No. 04329.2163				Serial No. 09/388,388			
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Filing Date September 1, 1999				Group 2766			
U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub Class	Translation Yes or No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Bruce Schneier, <i>Applied Cryptography</i> , Second Edition 1996, John Wiley & Sons, Inc.					
Examiner 				Date Considered 7/25/03			
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
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